

**COMPLETE TUBER PACKAGE  
FOR FARMERS  
BY  
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POWER TILLER**



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VST Shakti gives a guide for complete tuber package for farmers. It aims to cover complete process, agricultural implements required, key benefits of using VST tillers for cultivation and economics of tuber farming.



#### **KEY BENEFITS**

- First company to introduce Power tillers as farm machinery replacing manual farming.
- Easy maneuverability & light in weight.
- Unique Japanese design; easy availability of spares & service; good resale value.
- Established brand over decades in the farming community.

## FIELD PREPARATION



### KEY FEATURES

- Tines / blades are designed for heavy duty working & rigidity.
- Straight type for dry land and 'J' type is recommended for wet lands.
- 5 tynes are provided in rigid type cultivators.
- 0.25 ~ 0.4 acres can be cultivated in 1 hour with average diesel consumption of 1.0 ~ 1.25 lts / hr of operation

### KEY BENEFITS

- Rigid cultivator is used for tilling soil.
- Helps in preparing the soil for a new crop.
- Has high strength & rigidity.
- Tough in construction.

### **KEY FEATURES**

- 18 tynes can be fitted for best performance in dry land.
- Straight tynes recommended for dry field.
- 0.3 ~ 0.45 acres of land can be covered in 1 hr with average diesel consumption of 1.0 ~ 1.25 lts / hr
- Depth of Tilling is 150 ~ 225 mm.

### **KEY BENEFITS**

- Simple in construction with strong design appropriate for varied soil conditions
- The application includes : Soil conditioning, weed control, seedbed preparation & puddling in wet land..
- Most suitable for medium & small farmers and also for field preparation on both wet and dry land crops.
- Sturdy Construction
- Minimum load on Tiller.

## FIELD PREPARATION

A plough is a farming implement with one or more blades fixed in a frame, drawn by a power tiller over the soil to turn it over and cut furrows in preparation for planting seeds.

### KEY FEATURES

- 0.2 ~ 0.35 acres of land can be ploughed in 1 hour
- Diesel consumption is 1.0 ~ 1.25 lts / hr

### KEY BENEFITS

- This is well designed for ploughing the soil.
- Basic functions are inverting, breaking and raising the soil.
- Can be used in tough conditions
- Tills the soil which has deep roots, unwanted plants, shrubs and weeds.
- Shears are made of tough alloy steel, can be moved forward as and when wear and tear takes place due to usage in field



## FIELD PREPARATION

### RIDGER



#### KEY BENEFITS

- It consists of rectangular frame made of mild steel angle or channel section, 3 -point hitch assembly, shanks and ridger body.
- The share point is made from medium carbon steel or low alloy steel, hardened and tempered. Can be replaced with wear & tear.
- The ridger is operated in tilled soil, the share point penetrates in the soil, displaces it to both sides and a furrow is created.

## HARVESTING



### KEY BENEFITS

- Very optimally designed for removing potatoes.
- This digs the potatoes by a digging web / shear plate and then lifts them up to the sieves – rods fixed at intervals on a belt conveyor
- The sieve separates the potato from the soil and allows soil to fall below on the ground.
- Potatoes along with stones, clod, haulm and rejected clod fall on the ground on the backside of the implement to be picked manually and separated.



## HAULAGE

### TRANSPORTATION



#### KEY FEATURES

- Trailer capacity is maximum 1.5 tons.
- Standard dimensions – 3.85 x 1.10 x 0.40 mts (L x W x H)
- Average consumption of diesel is 1.0 lts ~ 1.25 lts / hr.
- Trailers can be suitably modified for:
  - Garbage collection & transportation
  - A tanker of maximum capacity 1000 litres for carrying drinking water

#### KEY BENEFITS

- Primarily required for transporting manure, chemicals, implements, produce etc.
- Trailer with a mechanical brake is commonly used.
- Hydraulic tipping type can be made on specific request.
- Spraying pump can be fitted with modification for spraying application.

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